

CLAIMS:

1. A combustion system for a heat generator, comprising a
premix burner and a combustion chamber, the premix
5 burner being connected to the combustion chamber by
means of an outlet, wherein the outlet comprises a
multiply stepped transitional structure in the
direction of flow of fluid so as to create turbulence
in the fluid flow.
- 10 2. A combustion system as claimed in Claim 1, wherein the
transitional structure of the outlet comprises three
to five steps.
- 15 3. A combustion system as claimed in Claim 2, wherein
four steps are provided in the outlet.
4. A combustion system as claimed in any one of the
preceding claims, wherein the length to height ratio
20 of the steps is from 1:1 to 10:1.
5. A combustion system as claimed in Claim 4, wherein the
length to height ratio of the steps is from 1:1 to
7:1.
- 25 6. A combustion system as claimed in any one of the
preceding claims, wherein the outlet is in the form of
a nozzle.
- 30 7. A heat generator having a combustion system as claimed
in any one of the preceding claims.